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Sheet 1 of 1

Application Number	10/622,833
Filing Date	July 21, 2003
First Named Inventor	Richard A. SCHUMACHER et al
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	MEMORY-28

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

Date Considered

12/8/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 5

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U.S. PATENT DOCUMENTS

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		Number	Kind Code ² (if known)			
RL		5,622,977		Warrellow et al.	04/22/1997	
RL		5,633,257		Warrellow et al.	05/27/1997	
RL		5,679,696		Fenton et al.	10/21/1997	
RL		5,693,659		Head et al.	12/02/1997	
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RL		6,180,650		Frenette et al.	01/30/2001	
RL		6,200,993		Cote et al.	03/13/2001	

Examiner
Signature

Rebecca J. Anderson

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Considered

12/18/05

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Sheet 2 of 5

Application Number	10/622,833
Filing Date	July 21, 2003
First Named Inventor	Richard A. SCHUMACHER et al
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	MEMORY-28

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RA		6,204,275		Friesen et al.	03/20/2001	
RA		6,245,774		Warrellow et al.	06/12/2001	
RA		6,297,264		Head et al.	10/02/2001	
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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
RA		FR	2729142	A1	Nadler et al.	07/12/1996		
RA		EP	1116711	A2	Chassot et al.	07/18/2001		
RA		EP	0994100	A1	Shinji et al.	04/19/2000		
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RA		WO	97 00868		PCT	1/9/1997		1
RA		WO	98 09961		PCT	3/12/1998		2
RA		WO	97 49702		PCT	12/31/1997		3
RA		WO	00 69841		PCT	11/23/2000		

Examiner Signature	<i>Rebecca Anderson</i>	Date Considered	12/8/05
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Sheet

3

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First Named Inventor	Richard A. SCHUMACHER et al
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	MEMORY-28

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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RG		HEILMAN et al, "Synthesis and Antiinflammatory Evaluation of Substituted Isophthalonitriles, Trimesonitriles, Benzonitriles, and Terephthalonitriles", Journal of Medicinal Chemistry, 1978, Vol. 21, No. 9, pp. 906-913, XP-002226236	
RG		WATANABE et al, "Structure-Activity Relationship and Rational Design of 3,4-Dephosphatase Inhibitors", Pergamon Tetrahedron, 2000, Vol. 56, pp. 741-752	
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RG		JAMES E. KELLEY et al., "Antirhinovirus structure-activity relationships of 6-substituted-9-(4-methylbenzyl)-2-trifluoromethyl-9H-purines," Eur. J. Med. Chem., 1990, pp. 131-135, Vol. 25	

Examiner Signature

Richard A. Schumacher

Date Considered

12/18/06

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Sheet 4 of 5

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First Named Inventor	Richard A. SCHUMACHER et al
Group Art Unit	Unassigned
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Rt		ROGER J. SCHILLING et al., "A High-Throughput Assay For Cyclic Nucleotide Phosphodiesterases," <u>Analytical Biochemistry</u> , 1994, pp.154-158, Vol. 215	
Rb		DONALD V. DANIELS et al., "A Semiautomated Method for the Assay of Cyclic Adenosine 5'-Monophosphate Phosphodiesterase," <u>Analytical Biochemistry</u> , 1996, pp. 367-369, Vol. 236	
Rb		JEAN-JACQUES BOURGUIGNON et al., "9-Benzyladenines: Potent and Selective cAMP Phosphodiesterase Inhibitors," <u>J. Med. Chem.</u> , 1997, pp. 1768-1770, Vol. 40	
Rb		JAMES L. KELLEY et al., "6-(Alkylamino)-9-alkylpurines. A New Class of Potential Antipsychotic Agents," <u>J. Med. Chem.</u> , 1997, pp. 3207-3216, Vol. 40	
Rb		HIROYUKI SAWANISHI et al., "Selective Inhibitors of Cyclic AMP-Specific Phosphodiesterase: Heterocycle-Condensed Purines," <u>J. Med. Chem.</u> , 1997, pp. 3248-3253, Vol. 40	
Rb		J.E. SOUNNES et al., "Proposal for Pharmacologically Distinct Conformers of PDE4 Cyclic AMP Phosphodiesterases," <u>Cell Signal</u> , 1997, pp. 227-236. Vol. 9, No. 3-4	
Rb		MARY ELIZABETH BACH et al., "Age-related defects in spatial memory are correlated with defects in the late phase of hippocampal long term potentiation <i>in vitro</i> and are attenuated by drugs that enhance the cAMP signaling pathway," <u>Proc. Natl. Acad. Sci. USA</u> , April 1999, pp.5280-5285, Vol. 96	
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Rb		Michael S. DRIVER et al., "A Second-Generation Catalyst for the Aryl Halide Amination: Mixed Secondary Amines from Aryl Halides and Primary Amines Catalyzed by (DPPF)PdCl ₂ ," <u>J. Am. Chem. Soc.</u> , 1996, Vol. 118, pp. 7217-7218.	
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Rb		Peng WANG et al., "Expression, Purification, and Characterization of Human cAMP-Specific Phosphodiesterase (PDE4) Subtypes A, B, C, and D," <u>Biochem. And Biophys. Research Comm.</u> , Vol. 234, 320-324 (1997).	

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<i>AK</i>		JAMES F. KELLEY et al., "Antirhinovirus structure-activity relationships of 6-substituted-9-(4-methylbenzyl)-2-trifluoromethyl-9H-purines," <i>Eur. J. Med. Chem.</i> , 1990, pp. 131-135, Vol. 25	
<i>BL</i>		Domine M. T. CHAN et al., "New N- abd O-Arylations with Phenylboronic Acids and Cupric Acetate," <i>Tetrahedron Letters</i> , Vol. 39, 2933-2936 (1998).	
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<i>RL</i>		Miles D. HOUSLAY et al., "The Multienzyme PDE4 Cyclic Adenosine Monophosphate-Specific Phosphodiesterase Family: Intracellular Targeting, Regulation, and Selective Inhibition by Compounds Exerting Anti-inflammatory and Antidepressant Actions," <i>Advances in Pharmacology</i> , Vol. 44, pp. 225-342, 1998.	
<i>BL</i>		John HARTWIG et al., "Room-Temperature Palladium-Catalyzed Amination of Aryl Bromides and Chlorides and Extended Scope of Aromatic C-N Bond Formation with a Commercial Ligand," <i>J. Org. Chem.</i> , 1999, Vol. 64, pp. 5575-5580.	
<i>KA</i>		Han-Ting ZHANG et al., "Inhibition of Cyclic AMP Phosphodiesterase (PDE4) Reverses Memory Deficits Associated with NDMA Receptor Antagonism," <i>Neuropsychopharmacology</i> , 2000, Vol. 23, pp. 198-204.	
<i>GA</i>		Han-Ting ZHANG et al., "Effects of Rolipram on Scopolamine-induced Impairment of Working and Reference Memory in the Radial-arm Maze tests in Rats," <i>Psychopharmacology (Berl)</i> 2000 June;150(3):pp. 311-6.	
<i>RB</i>		T.W. Greene et al., <i>Protective Groups in Organic Synthesis</i> , 3 rd Edition, Chapter 3, "Protection for Phenols and Catechols," pp. 246-292, John Wiley & Sons, 1999	
		International Search Report from PCT Application No. PCT/US02/01508, dated January 16, 2003	

Examiner Signature

Katherine Anderson

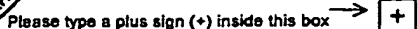
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Group Art Unit	1614
Examiner Name	Unassigned
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Sheet

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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* already considered on 9/2/05 IOS *RL*